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NEWS	6	MAR 30	RDISCLOSURE reloaded with enhancements
NEWS	7	APR 02	JICST-EPLUS removed from database clusters and STN
NEWS	8	APR 30	GENBANK reloaded and enhanced with Genome Project ID field
NEWS	9	APR 30	CHEMCATS enhanced with 1.2 million new records
NEWS	10	APR 30	CA/CAPplus enhanced with 1870-1889 U.S. patent records
NEWS	11	APR 30	INPADOC replaced by INPADOCDB on STN
NEWS	12	MAY 01	New CAS web site launched
NEWS	13	MAY 08	CA/CAPplus Indian patent publication number format defined
NEWS	14	MAY 14	RDISCLOSURE on STN Easy enhanced with new search and display fields
NEWS	15	MAY 21	BIOSIS reloaded and enhanced with archival data
NEWS	16	MAY 21	TOXCENTER enhanced with BIOSIS reload
NEWS	17	MAY 21	CA/CAPplus enhanced with additional kind codes for German patents
NEWS	18	MAY 22	CA/CAPplus enhanced with IPC reclassification in Japanese patents
NEWS	19	JUN 27	CA/CAPplus enhanced with pre-1967 CAS Registry Numbers
NEWS	20	JUN 29	STN Viewer now available
NEWS	21	JUN 29	STN Express, Version 8.2, now available
NEWS	22	JUL 02	LEMBASE coverage updated
NEWS	23	JUL 02	LMEDLINE coverage updated
NEWS	24	JUL 02	SCISEARCH enhanced with complete author names
NEWS	25	JUL 02	CHEMCATS accession numbers revised
NEWS	26	JUL 02	CA/CAPplus enhanced with utility model patents from China
NEWS	27	JUL 16	CAPplus enhanced with French and German abstracts
NEWS	28	JUL 18	CA/CAPplus patent coverage enhanced
NEWS EXPRESS	29	JUNE 2007:	CURRENT WINDOWS VERSION IS V8.2, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.
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FILE 'HOME' ENTERED AT 11:44:27 ON 24 JUL 2007

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

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ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 11:44:58 ON 24 JUL 2007

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=> s nordihydroguaiaretic acid/cn

L1 1 NORDIHYDROGUAIARETIC ACID/CN

=> d

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 500-38-9 REGISTRY

ED Entered STN: 16 Nov 1984

CN 1,2-Benzenediol, 4,4'-(2,3-dimethyl-1,4-butanediyl)bis- (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Pyrocatechol, 4,4'-(2,3-dimethyltetramethylene)di- (8CI)

OTHER NAMES:

CN β,γ -Dimethyl- α,δ -bis(3,4-dihydroxyphenyl)butane

CN 1,4-Bis(3,4-dihydroxyphenyl)-2,3-dimethylbutane

CN 4,4'-(2,3-Dimethyl-1,4-butanediyl)bis(pyrocatechol)

CN 4,4'-(2,3-Dimethyltetramethylene)dipyrocatechol

CN 4-[4-(3,4-Dihydroxyphenyl)-2,3-dimethylbutyl]benzene-1,2-diol

CN Butane, 1,4-bis(3,4-dihydroxyphenyl)-2,3-dimethyl-

CN Dihydronorguaiaretic acid

CN Dinorguaiaretic acid, dihydro-

CN NDGA

CN Nordihydroguaiaretic acid

CN Norguaiaretic acid, dihydro-

CN NSC 4291

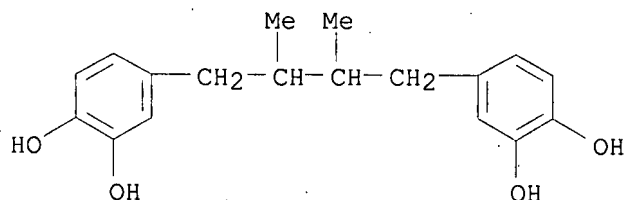
DR 1413-68-9

MF C18 H22 O4

CI COM

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(*File contains numerically searchable property data)
 Other Sources: EINECS**
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PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1832 REFERENCES IN FILE CA (1907 TO DATE)
 40 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
 1836 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 17 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> fil capl

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

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7.35

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FILE 'CAPLUS' ENTERED AT 11:45:18 ON 24 JUL 2007

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FILE LAST UPDATED: 23 Jul 2007 (20070723/ED)

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=> s l1

L2 1836 L1

=> s rat or mice or hamster

724364 RAT

689680 RATS

1130711 RAT

(RAT OR RATS)

447988 MICE

15 MICES

447990 MICE

(MICE OR MICES)
47366 HAMSTER
16287 HAMSTERS
55510 HAMSTER
(HAMSTER OR HAMSTERS)
L3 1567438 RAT OR MICE OR HAMSTER

=> s 12 and 13
L4 322 L2 AND L3

=> s 12 (s) 13
L5 60 L2 (S) L3

=> s 15 not py>2000
7435502 PY>2000
L6 28 L5 NOT PY>2000

=> d ibib abs 25-28

L6 ANSWER 25 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1973:462203 CAPLUS

DOCUMENT NUMBER: 79:62203

TITLE: Effect of BHA (butylated hydroxyanisole), BHT (butylated hydroxytoluene), and NDGA (nordihydroguaiaretic acid) on hemolysis and blood clotting in rats

AUTHOR(S): Kwast, Michal

CORPORATE SOURCE: Zakl. Badania Zywn. Przedmiotow Uzytku, Panstw. Zakl. Hig., Warsaw, Pol.

SOURCE: Roczniki Panstwowego Zakladu Higieny (1973), 24(2), 169-73

CODEN: RPZHAW; ISSN: 0035-7715

DOCUMENT TYPE: Journal

LANGUAGE: Polish

AB Butylated hydroxyanisole [25013-16-5], butylated hydroxytoluene [128-37-0], and nordihydroguaiaretic acid (I) [500-38-9], administered to rats orally at 50% of their LD50 values increased hematocrits and hemoglobin levels on the first day. On the third day after treatment both blood parameters returned to normal. No other effects on blood clotting or constituents were observed. In vitro, all 3 compds. induced red blood cell hemolysis. I showed the strongest activity, causing 100% hemolysis within 45 min when added to the blood cell suspensions at 10-4M.

L6 ANSWER 26 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:121493 CAPLUS

DOCUMENT NUMBER: 76:121493

TITLE: Inhibition of electron and energy transfer in rat liver mitochondria by nordihydroguaiaretic acid

AUTHOR(S): Bhuvaneswaran, C.; Dakshinamurti, K.

CORPORATE SOURCE: Fac. Med., Univ. Manitoba, Winnipeg, MB, Can.

SOURCE: Biochemistry (1972), 11(1), 85-91

CODEN: BICHAW; ISSN: 0006-2960

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Nordihydroguaiaretic acid (I) [500-38-9] effectively inhibited rat liver mitochondrial respiration associated with NAD-linked substrates in vitro. I inhibited both electron and energy transfer in mitochondria, as indicated by the partial release of I inhibition by dinitrophenol [51-28-5], inhibition by I of succinate-linked reduction of acetoacetate [541-50-4], and inhibition of energy-linked mitochondrial swelling. I inhibition was reversed by treating the mitochondria with bovine serum albumin, but not by washing with sucrose solution. The addition of I to mitochondria oxidizing NAD-linked substrates at state 3 shifted the redox level of cytochrome b to the oxidized state and that of the pyridine

nucleotide to a more reduced state. The effects of I may involve a lipid component in the respiratory chain.

L6 ANSWER 27 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1972:107920 CAPLUS

DOCUMENT NUMBER: 76:107920

TITLE: In vitro study of new inhibitors of cerebral serotonin synthesis

AUTHOR(S): Corgier, Monique; Tappaz, Marcel; Pacheco, Henri

CORPORATE SOURCE: Inst. Nat. Sci. Appl., Villeurbanne, Fr.

SOURCE: Comptes Rendus des Seances de l'Academie des Sciences, Serie D: Sciences Naturelles (1971), 273(23), 2361-4
CODEN: CHDDAT; ISSN: 0567-655X

DOCUMENT TYPE: Journal

LANGUAGE: French

AB Of the 14 compds. tested at concns. of 5 .tim. 10⁻⁵ or 5 .tim. 10⁻⁴M, the strongest inhibitors of rat cerebral tryptophan hydroxylase in vitro were 2,3,4-trihydroxyacetophenone (I) [528-21-2], 3-(1-naphthyl)alanine [7758-42-1], and NDGA (II) [500-38-9]. I, II, and RO 4-4602 (III) [322-35-0] (each at 5 .tim. 10⁻⁵M) inhibited 5-hydroxytryptophan decarboxylase in vitro by >50%.

L6 ANSWER 28 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1960:119419 CAPLUS

DOCUMENT NUMBER: 54:119419

ORIGINAL REFERENCE NO.: 54:22887h-i,22888a

TITLE: The effect of saponin, sterols, and linoleic acid on the weight increase of growing rats

AUTHOR(S): Coulson, C. B.; Evans, R. A.

CORPORATE SOURCE: Univ. Coll. North Wales, Bangor

SOURCE: British Journal of Nutrition (1960), 14, 121-34
CODEN: BJNUAV; ISSN: 0007-1145

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

AB Supplements were added (in g./100 g. diet) for 4-6 weeks, to a basal diet fed in restricted quantities to month old male Wistar hooded rats. Quillaja saponin (I) (2-3) and saponin white (3) depressed rate of weight gain. I (2) did not affect utilization of ergocalciferol. The depression by I was specifically reversed by cholesterol (1-3) but not by β -sitosterol (3). Cholesterol (1-3) also retarded weight gain. Linoleic acid when esterified or protected by an antioxidant increased the rate of gain. The free acid or choline had no effect. Nordihydroguaiaretic acid appeared to have a stimulatory effect, sep. from its antioxidant role but α -tocopherol did not.

=> d ibib abs 21-24

L6 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:133334 CAPLUS

DOCUMENT NUMBER: 100:133334

TITLE: Possible involvement of lipoxygenase products of arachidonic acid pathway in ovulation

AUTHOR(S): Reich, R.; Kohen, F.; Naor, Z.; Tsafiriri, A.

CORPORATE SOURCE: Dep. Horm. Res., Weizmann Inst. Sci., Rehovot, 76100, Israel

SOURCE: Prostaglandins (1983), 26(6), 1011-20

CODEN: PRGLBA; ISSN: 0090-6980

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The possible involvement of products of the lipoxygenase pathway of arachidonic acid [506-32-1] cascade in ovulation in the rat was tested by intrabursal injection of nordihydroguaiaretic acid (NDGA) [500-38-9], 5,8,11-eicosatriynoic acid [13488-22-7], 3-amino-1-(3-trifluoromethylphenyl)-2-pyrazoline hydrochloride

[66000-40-6], and FPL 55712. [40786-08-1]. All these drugs reduced the number of ova released from the treated ovaries in a dose-dependent manner, without affecting ovulation from contralateral ovaries. NDGA was the most potent inhibitor, and its effect cannot be ascribed to its inhibition of ovarian prostaglandin E synthesis. Conversion of labeled arachidonic acid via the lipoxygenase pathway by preovulatory rat follicles was demonstrated by TLC. These results suggest the involvement of products of the lipoxygenase pathway of arachidonic acid in ovulation in the rat.

L6 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1984:18144 CAPLUS

DOCUMENT NUMBER: 100:18144

TITLE: Modulation of insulin secretion by lipoxygenase products of arachidonic acid. Relation to lipoxygenase activity of pancreatic islets

AUTHOR(S): Yamamoto, Satoshi; Ishii, Miki; Nakadate, Teruo; Nakaki, Toshio; Kato, Ryuichi

CORPORATE SOURCE: Sch. Med., Keio Univ., Tokyo, 160, Japan

SOURCE: Journal of Biological Chemistry (1983), 258(20), 12149-52

CODEN: JBCHA3; ISSN: 0021-9258

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Glucose [50-99-7] (16.7 mM)-induced insulin [9004-10-8] secretion from isolated pancreatic islets of rats was inhibited by nordihydroguaiaretic acid (NDGA) [500-38-9], 1-phenyl-3-pyrazolidinone (phenidone) [92-43-3], 3-amino-1-[3-(trifluoromethyl)phenyl]-2-pyrazoline (BW755C) [66000-40-6], 2,3,5-trimethyl-6-(12-hydroxy-5,10-dodecadienyl)-1,4-benzoquinone [80809-73-0], and 2,6-di-tert-butyl-4-methylphenol [128-37-0]. Indomethacin [53-86-1] and aspirin [50-78-2], however, failed to inhibit the glucose-induced insulin secretion but rather tended to enhance it. The glucose-induced insulin secretion was inhibited by 15-hydroxy-5,8,11,13-eicosatetraenoic acid (15-HETE) [73945-47-8] (50 μ M), 15-hydroperoxy-5,8,11,13-eicosatetraenoic acid (15-HPETE) [67675-14-3] (100 μ M), and 12-hydroxy-5,8,10,14-eicosatetraenoic acid (12-HETE) [59985-28-3] (100 μ M), but not by 5-hydroxy-6,8,11,14-eicosatetraenoic acid (5-HETE) [72255-35-7] (100 μ M). Exogenous 5-HETE (10 μ M) induced insulin secretion in a low glucose (3.3 mM) medium. (\pm)-5-HETE [73307-52-5] also showed insulinotropic effect in a concentration-dependent manner with the concns. 20 μ M or above, whereas 12-HETE, 15-HETE, 15-HPETE, 5,12-dihydroxy-6,8,10,14-eicosatetraenoic acid [71160-24-2], 5-hydroxy-6-glutathionyl-7,9,11,14-eicosatetraenoic acid [72025-60-6], 5-hydroxy-6-cysteinylglycinyl-7,9,11,14-eicosatetraenoic acid [73836-78-9], PGE2 [363-24-6], and PGF2 α [551-11-1] failed to induce insulin secretion. Although insulin release was observed with arachidonic acid [506-32-1] (\geq 100 μ M), reduced cell viability was evident at 200 μ M. When the 10,000 g supernatant of isolated pancreatic islet homogenate was incubated with [3 H]arachidonic acid at 37° in the presence of GSH and Ca $^{2+}$, and the labeled metabolites then extracted with EtOAc and subjected to reversed-phase high-pressure liquid chromatog., several radioactive peaks, coeluted with authentic 15-, 12-, and 5-HETE, were observed. The radioactive peaks were completely suppressed by the addition of either NDGA, BW755C, or phenidone into the medium. Thus, the 5-lipoxygenase [80619-02-9] system may play a role in the glucose-induced insulin secretion.

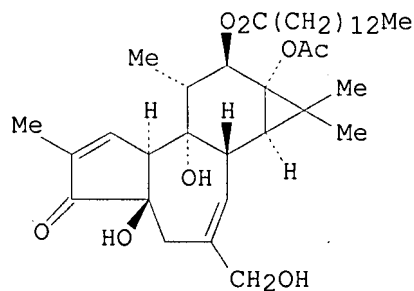
L6 ANSWER 23 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1983:121031 CAPLUS

DOCUMENT NUMBER: 98:121031

TITLE: Inhibition of 12-O-tetradecanoylphorbol 13-acetate-induced tumor promotion by nordihydroguaiaretic acid, a lipoxygenase inhibitor, and p-bromophenacyl bromide, a phospholipase A2 inhibitor

AUTHOR(S): Nakadate, Teruo; Yamamoto, Satoshi; Iseki, Harukazu;
Sonoda, Shigeru; Takemura, Satomi; Ura, Akiko; Hosoda,
Yasuhiro; Kato, Ryuichi
CORPORATE SOURCE: Sch. Med., Keio Univ., Tokyo, 160, Japan
SOURCE: Gann (1982), 73(6), 841-3
CODEN: GANNA2; ISSN: 0016-450X
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



AB nordihydroguaiaretic acid [500-38-9] And p-bromophenacyl bromide [99-73-0] markedly suppressed skin tumor promotion induced by 12-O-tetradecanoylphorbol 13-acetate (I) [16561-29-8] in CD-1 mice. However, phenidone [92-43-3] was ineffective. Apparently, phospholipase A2 [9001-84-7] and lipoxygenase [9029-60-1] products are involved in the mechanism of promotion, and the dissociation of the relationship between suppression of ornithine decarboxylase and inhibition of tumor promotion.

L6 ANSWER 24 OF 28 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1973:487911 CAPLUS
DOCUMENT NUMBER: 79:87911
TITLE: Effects of nordihydroguaiaretic acid on rat hepatic microsomal enzymes
AUTHOR(S): Parke, Dennis V.; Rahim, Abdur; Walker, Ronald
CORPORATE SOURCE: Dep. Biochem., Univ. Surrey, Guildford, UK
SOURCE: Biochemical Society Transactions (1973), 1(2), 511-14
CODEN: BCSTB5; ISSN: 0300-5127
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The antioxidant nordihydroguaiaretic acid (I) [500-38-9] fed to rats at a dietary concentration of 0.5% did not affect growth rate or food intake but almost doubled liver weight after 30 days. I increased liver concns. of microsomal protein, cytochrome P-450 [9035-51-2] and cytochrome b5 [9035-39-6] maximally after 14-30 days, but the microsomal protein concentration decreased to the control value after 60 days. I did not appreciably affect the sp. activity of biphenyl 4-hydroxylase [9012-80-0] but increased that of ethylmorphine N-demethylase [9032-78-4] up to 150% of the control value on day 3.

=> FIL STNGUIDE

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FULL ESTIMATED COST	35.85	43.41
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ENTRY	SESSION
0.18	43.59

FULL ESTIMATED COST

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SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-6.24

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STN INTERNATIONAL LOGOFF AT 11:53:20 ON 24 JUL 2007